

ABB BALDOR RELIANCE III

Customer information packet

FDEM3709T-5

7.5HP, 3520RPM, 3PH, 60HZ, 213T, 3728M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	213T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM CURUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	7.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	7.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H

Part Detail

Revision	F
Type	AC
Mech. spec.	37N377
Base	
Status	PRD/A
Elec. spec.	37WGR289
Layout	37LYN377
Eff. date	11-27-2024
CD Diagram	CD0006
Poles	02
Leads	3#14
Proprietary	False
Created date	06-12-2018

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3728M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	17.89 IN
Power Factor	86
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3520 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3126L											
CAT.NO.	FDEM3709T-5										
SPEC.	37N377R289G2										
HP	7.5										
VOLTS	575										
AMP	7										
RPM	3520										
FRAME	213T		HZ	60				PH	3		
SER.F.	1.15	CODE	H	DES	B	CL	F				
NEMA-NOM-EFF	89.5	PF	86								
RATING	40C AMB-CONT										
CC	010A										
DE	6307		ODE	6206							
ENCL	TEFC	SN									
	IP44										

Parts List

Part number	Description	Quantity
SA357026	SA 37N377R289G2	1.000 ea
RA346010	RA 37N377R289G2	1.000 ea
36FN3000B02	EXFN, PLASTIC, 6.00 OD, 1.175 ID	1.000 ea
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
37CB3006	37 CB CASTING W/1.38 LEAD HOLE @ 6:00	1.000 ea
37GS1000SP	GASKET, CONDUIT BOX STD., .06 THICK LEXI	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
37EP3101A04	FR ENDPLATE, MACH	1.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
37PE3100A42	37 PUEP ASSEMBLY FOR SEAL	1.000 ea
HW4600H13	SEAL 1.375 X 2.125 X 0.313 SINGLE LIP DB	1.000 ea
HW4600B33	V-RING SLINGER 1.375 X 1.890 X .35 VITON	1.000 ea
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
07FH4007A07	IEC FH NO GRSR, NOTCH @ 6:00 & 3 F/C HOL	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
37CB4516	LIPPED LID FOR 37 FRAME NEC KOBX	1.000 ea
37GS1008	37 GS FOR CB LID - LEXIDE	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501F21	KEY, 5/16 SQ X 2.375	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 ea
MG1025C02	WILKOFASST SG, 787.105, TAN	0.028 ga
HA3104A14	THRUBOLT- 5/16-18 X12.125(OHIO)	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
NP3126L	ALUM FARM DUTY SUPER-E UL CSA-EEV PREM	1.000 ea
37PA1074	PALLET PACK GRP, PRINT BOX PK1026A06	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea

LB1624

COMBINED WARNING LABEL, ISO/ANSI PICTOGR

1.000 ea

AC Induction Motor Performance Data

Record # 38326

Typical performance - not guaranteed values

Winding: 37WGR289-R001			Type: 3728M		Enclosure: TEFC	
Nameplate Data			575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		7.5	Full Load Torque		10.9 LB-FT	
Volts		575	Start Configuration		direct on line	
Full Load Amps		7	Breakdown Torque		37.4 LB-FT	
R.P.M.		3520	Pull-up Torque		19 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		20.1 LB-FT
NEMA Design Code		B	KVA Code		H	
Service Factor (S.F.)		1.15	Starting Current		50.7 A	
NEMA Nom. Eff.		89.5	Power Factor		87	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		46°C
S.F. Amps				Temp. Rise @ S.F. Load		56°C
				Locked-rotor Power Factor		33
				Rotor inertia		0.255 LB-FT2

Load Characteristics 575 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	49	73	82	86	88	90	87
Efficiency	82	89	90.1	90.2	89.6	88.2	90.1
Speed	3579	3560	3538	3515	3490	3462	3500
Line amperes	3.06	4.03	5.42	6.98	8.66	10.4	7.99

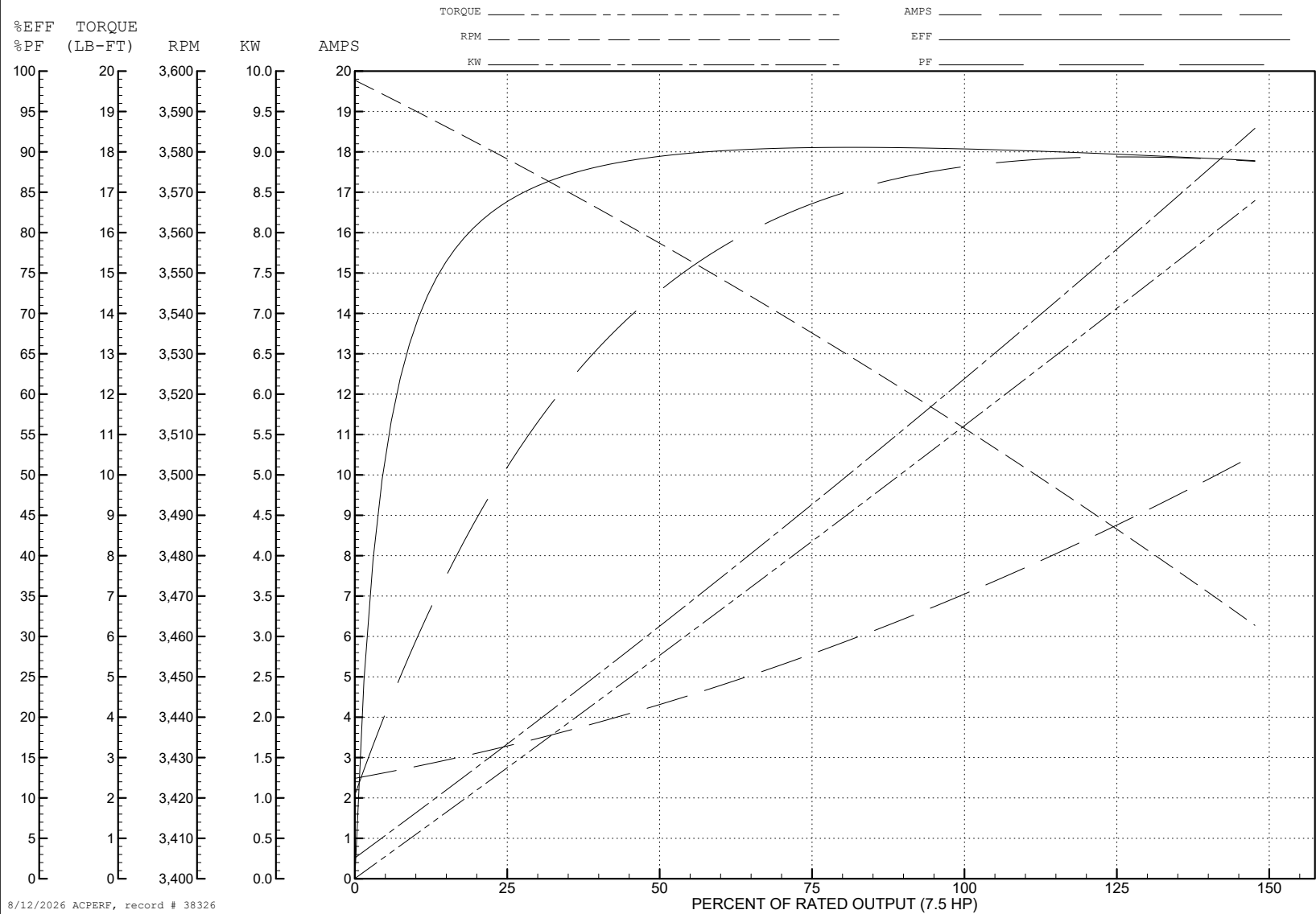
ABB Motors and Mechanical Inc.

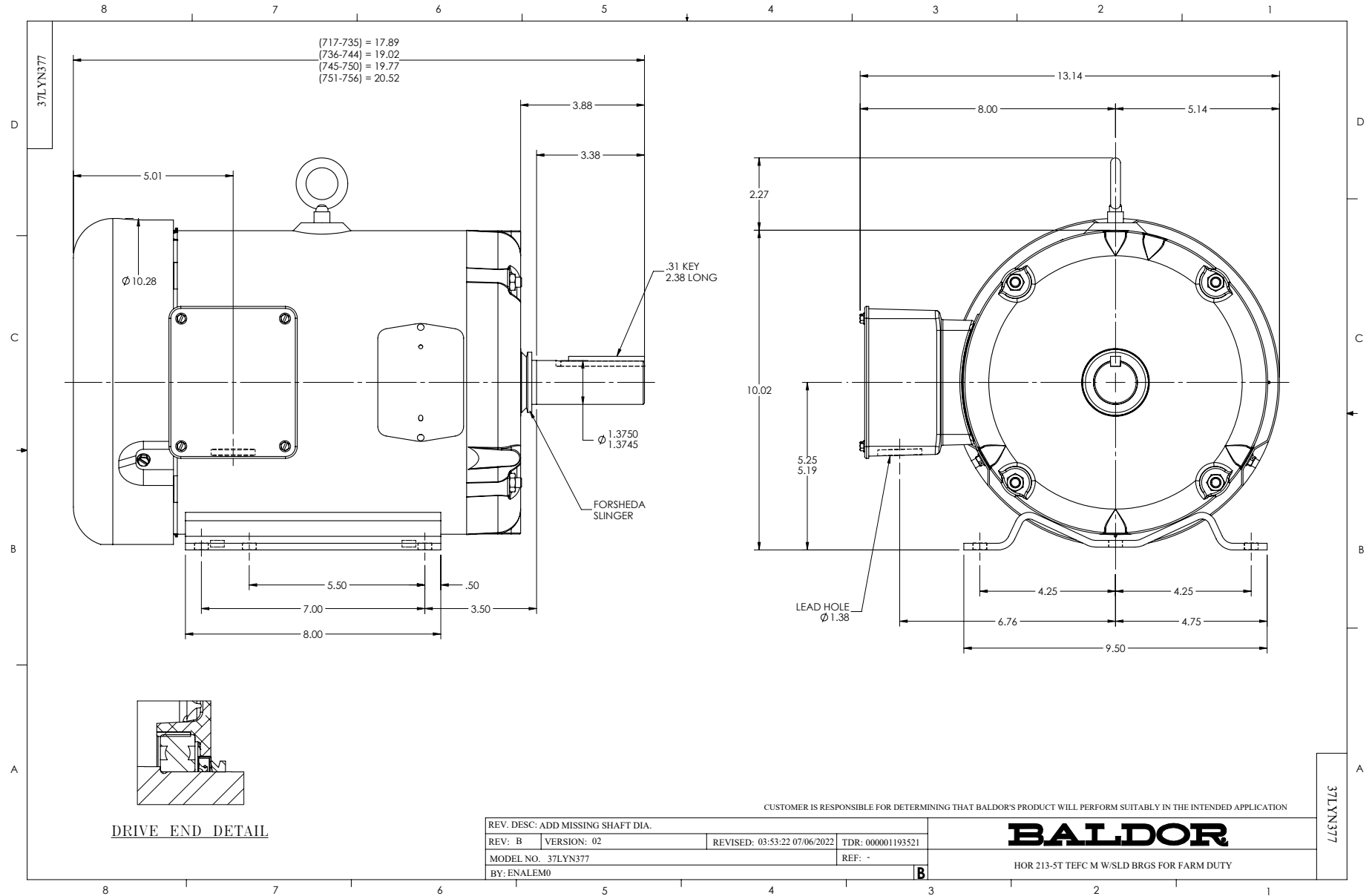
WINDING # 37WGR289

Typical performance - not guaranteed values.

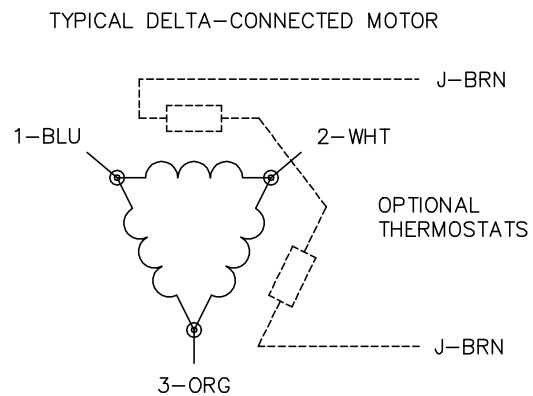
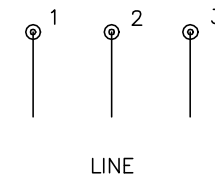
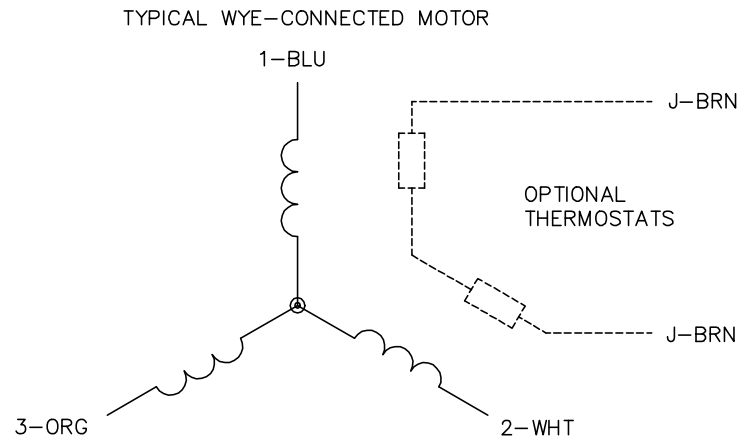
7.5 HP 3 PH 60 HZ 3520 RPM 575 V 3728M

TORQUES (LB-FT): PO=37.4 PU=19 LR=20.1 LRA=50.7





CD0006


NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10:24:49 02/19/2019

BY: ENBRIRO

MTL: —


BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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